

WO 00/01821

PCT/US99/15121

## SEQUENCE LISTING

&lt;110&gt; INCYTE PHARMACEUTICALS, INC.

LAL, Preeti  
 TANG, Y. Tom  
 YUE, Henry  
 CORLEY, Neil C.  
 GUEGLER, Karl J.  
 GORGONE, Gina A.  
 BAUGHN, Mariah R.  
 PATTERSON, Chandra

&lt;120&gt; NEUROTRANSMISSION ASSOCIATED PROTEINS

&lt;130&gt; PF-0551 PCT

&lt;140&gt; To Be Assigned

&lt;141&gt; Herewith

&lt;150&gt; 60/091,667

&lt;151&gt; 1998-07-02

&lt;160&gt; 12

&lt;170&gt; PERL Program

&lt;210&gt; 1

&lt;211&gt; 251

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte Clone No: 238506

&lt;400&gt; 1

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Val	Ser	Thr	Gln	Ala	Met	His	Asn	Gly	Ser	Pro	Lys	Ser	Ser	Ala					
				20					25					30					
Ser	Gln	Ala	Gly	Ala	Ala	Ala	Gly	Gln	Gly	Ala	Pro	Ala	Pro	Ala					
				35					40					45					
Pro	Ala	Ser	Gln	Glu	Pro	Leu	Pro	Ile	Ala	Gly	Pro	Ala	Thr	Ala					
				50					55					60					
Pro	Ala	Pro	Arg	Pro	Leu	Gly	Ser	Ile	Gln	Arg	Pro	Asn	Ser	Phe					
				65					70					75					
Leu	Phe	Arg	Ser	Ser	Ser	Gln	Ser	Gly	Ser	Gly	Pro	Ser	Ser	Pro					
				80					85					90					
Asp	Ser	Val	Leu	Arg	Pro	Arg	Arg	Tyr	Pro	Gln	Val	Pro	Asp	Glu					
				95					100					105					
Lys	Asp	Leu	Met	Thr	Gln	Leu	Arg	Gln	Val	Leu	Glu	Ser	Arg	Leu					
				110					115					120					
Gln	Arg	Pro	Leu	Pro	Glu	Asp	Leu	Ala	Glu	Ala	Leu	Ala	Ser	Gly					
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Val	Ile	Leu	Cys	Gln	Leu	Ala	Asn	Gln	Leu	Arg	Pro	Arg	Ser	Val					
				140					145					150					

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Pro	Phe	Ile	His	Val	Pro	Ser	Pro	Ala	Val	Pro	Lys	Leu	Ser	Ala
				155					160					165
Leu	Lys	Ala	Arg	Lys	Asn	Val	Glu	Ser	Phe	Leu	Glu	Ala	Cys	Arg
				170					175					180
Lys	Met	Gly	Val	Pro	Glu	Ala	Asp	Leu	Cys	Ser	Pro	Ser	Asp	Leu
				185					190					195
Leu	Gln	Gly	Thr	Ala	Arg	Gly	Leu	Arg	Thr	Ala	Leu	Glu	Ala	Val
				200					205					210
Lys	Arg	Val	Gly	Gly	Lys	Ala	Leu	Pro	Pro	Leu	Trp	Pro	Pro	Ser
				215					220					225
Gly	Leu	Gly	Gly	Phe	Val	Val	Phe	Tyr	Val	Val	Leu	Met	Leu	Leu
				230					235					240
Leu	Tyr	Val	Thr	Tyr	Thr	Arg	Leu	Leu	Gly	Ser				
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 <223> Incyte Clone No: 414692

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				20					25					30
Arg	Met	Ala	Phe	Leu	Arg	Lys	Val	Tyr	Ser	Ile	Leu	Ser	Leu	Gln
				35					40					45
Val	Leu	Leu	Thr	Thr	Val	Thr	Ser	Thr	Val	Phe	Leu	Tyr	Phe	Glu
				50					55					60
Ser	Val	Arg	Thr	Phe	Val	His	Glu	Ser	Pro	Ala	Leu	Ile	Leu	Leu
				65					70					75
Phe	Ala	Leu	Gly	Ser	Leu	Gly	Leu	Ile	Phe	Ala	Leu	Thr	Leu	Asn
				80					85					90
Arg	His	Lys	Tyr	Pro	Leu	Asn	Leu	Tyr	Leu	Leu	Phe	Gly	Phe	Thr
				95					100					105
Leu	Leu	Glu	Ala	Leu	Thr	Val	Ala	Val	Val	Val	Thr	Phe	Tyr	Asp
				110					115					120
Val	Tyr	Ile	Ile	Leu	Gln	Ala	Phe	Ile	Leu	Thr	Thr	Thr	Val	Phe
				125					130					135
Phe	Gly	Leu	Thr	Val	Tyr	Thr	Leu	Gln	Ser	Lys	Lys	Asp	Phe	Ser
				140					145					150
Lys	Phe	Gly	Ala	Gly	Leu	Phe	Ala	Leu	Leu	Trp	Ile	Leu	Cys	Leu
				155					160					165
Ser	Gly	Phe	Leu	Lys	Phe	Phe	Phe	Tyr	Ser	Glu	Ile	Met	Glu	Leu
				170					175					180
Val	Leu	Ala	Ala	Ala	Gly	Ala	Leu	Leu	Phe	Cys	Gly	Phe	Ile	Ile
				185					190					195
Tyr	Asp	Thr	His	Ser	Leu	Met	His	Lys	Leu	Ser	Pro	Glu	Glu	Tyr
				200					205					210
Val	Leu	Ala	Ala	Ile	Ser	Leu	Tyr	Leu	Asp	Ile	Ile	Asn	Leu	Phe

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	215		220		225
Leu His Leu Leu Arg Phe Leu Glu Ala Val Asn Lys Lys					
	230		235		

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<220>  
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 20 25 30  
 Asn Met Ser Lys Glu Asp Ala Met Val Glu Phe Val Lys Leu Leu  
 35 40 45  
 Asn Arg Cys Cys His Leu Phe Ser Thr Tyr Val Ala Ser His Lys  
 50 55 60  
 Ile Glu Lys Glu Glu Gln Asp Lys Lys Arg Gln Glu Glu Glu Glu  
 65 70 75  
 Arg Arg Arg Arg Glu Glu Glu Glu Arg Glu Arg Leu Pro Lys Glu  
 80 85 90  
 Glu Glu Lys Arg Arg Arg Glu Glu Glu Glu Arg Leu Arg Arg Ala  
 95 100 105  
 Ala Glu Glu Arg Arg Arg Ile Glu Glu Glu Arg Leu Arg Leu Glu  
 110 115 120  
 Gln Gln Lys Gln Gln Ile Met Ala Ala Leu Asn Ser Gln Thr Ala  
 125 130 135  
 Val Gln Phe Gln Gln Tyr Ala Ala Gln Gln Tyr Pro Gly Asn Tyr  
 140 145 150  
 Glu Gln Gln Gln Ile Leu Ile Arg Gln Leu Gln Glu Gln His Tyr  
 155 160 165  
 Gln Gln Tyr Met Gln Gln Leu Tyr Gln Val Gln Leu Ala Gln Gln  
 170 175 180  
 Gln Ala Ala Leu Gln Lys Gln Gln Glu Val Val Val Ala Gly Ser  
 185 190 195  
 Ser Leu Pro Thr Ser Ser Lys Val Asn Ala Thr Val Pro Ser Asn  
 200 205 210  
 Met Met Ser Val Asn Gly Gln Ala Lys Thr His Thr Asp Ser Ser  
 215 220 225  
 Glu Lys Glu Leu Glu Pro Glu Ala Ala Glu Glu Ala Leu Glu Asn  
 230 235 240  
 Gly Pro Lys Glu Ser Leu Pro Val Ile Ala Ala Pro Ser Met Trp  
 245 250 255  
 Thr Arg Pro Gln Ile Lys Asp Phe Lys Glu Lys Ile Gln Gln Asp  
 260 265 270  
 Ala Asp Ser Val Ile Thr Val Gly Arg Gly Glu Val Val Thr Val  
 275 280 285  
 Arg Val Pro Thr His Glu Glu Gly Ser Tyr Leu Phe Trp Glu Phe  
 290 295 300

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Ala Thr Asp Asn Tyr Asp Ile Gly Phe Gly Val Tyr Phe Glu Trp		
	305	310 315
Thr Asp Ser Pro Asn Thr Ala Val Ser Val His Val Ser Glu Ser	320	325 330
Ser Asp Asp Asp Glu Glu Glu Glu Glu Asn Ile Gly Cys Glu Glu	335	340 345
Lys Ala Lys Lys Asn Ala Asn Lys Pro Leu Leu Asp Glu Ile Val	350	355 360
Pro Val Tyr Arg Arg Asp Cys His Glu Glu Val Tyr Ala Gly Ser	365	370 375
His Gln Tyr Pro Gly Arg Gly Val Tyr Leu Leu Lys Phe Asp Asn	380	385 390
Ser Tyr Ser Leu Trp Arg Ser Lys Ser Val Tyr Tyr Arg Val Tyr	395	400 405
Tyr Thr Arg		

&lt;210&gt; 4

&lt;211&gt; 272

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte Clone No: 1296451

&lt;400&gt; 4

Met Thr Ala Thr Glu Ala Leu Leu Arg Val Leu Leu Leu Leu Leu		
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Ala Phe Gly His Ser Thr Tyr Gly Ala Glu Cys Phe Pro Ala Cys	20	25 30
Asn Pro Gln Asn Gly Phe Cys Glu Asp Asp Asn Val Cys Arg Cys	35	40 45
Gln Pro Gly Trp Gln Gly Pro Leu Cys Asp Gln Cys Val Thr Ser	50	55 60
Pro Gly Cys Leu His Gly Leu Cys Gly Glu Pro Gly Gln Cys Ile	65	70 75
Cys Thr Asp Gly Trp Asp Gly Glu Leu Cys Asp Arg Asp Val Arg	80	85 90
Ala Cys Ser Ser Ala Pro Cys Ala Asn Asn Gly Tyr Ser Gly Lys	95	100 105
Asp Cys Gln Lys Lys Asp Gly Pro Cys Val Ile Asn Gly Ser Pro	110	115 120
Cys Gln His Gly Gly Thr Cys Val Asp Asp Glu Gly Arg Ala Ser	125	130 135
His Ala Ser Cys Leu Cys Pro Pro Gly Phe Ser Gly Asn Phe Cys	140	145 150
Glu Ile Val Ala Ser Pro Cys Gln Asn Gly Gly Thr Cys Leu Gln	155	160 165
His Thr Gln Pro Glu His Arg Ile Leu Lys Val Ser Met Lys Glu	170	175 180
Leu Asn Lys Lys Thr Pro Leu Leu Thr Glu Gly Gln Ala Ile Cys	185	190 195
Phe Thr Ile Leu Gly Val Leu Thr Ser Leu Val Val Leu Gly Thr	200	205 210

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Val	Gly	Ile	Val	Phe	Leu	Asn	Lys	Cys	Glu	Thr	Trp	Val	Ser	Asn	
				215					220					225	
Leu	Arg	Tyr	Asn	His	Met	Leu	Arg	Lys	Lys	Lys	Asn	Leu	Leu	Leu	
				230					235					240	
Gln	Tyr	Asn	Ser	Gly	Glu	Asp	Leu	Ala	Val	Asn	Ile	Ile	Phe	Pro	
				245					250					255	
Glu	Lys	Ile	Asp	Met	Thr	Thr	Phe	Ser	Lys	Glu	Ala	Gly	Asp	Glu	
				260					265					270	
Glu	Ile														

<210> 5  
 <211> 363  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte Clone No: 1739035

<400> 5

Met	Cys	Leu	Asn	His	Ser	Asn	Gln	Phe	Thr	Gln	Leu	Gly	Asn	Ile	
1				5					10					15	
Thr	Glu	Thr	Thr	Lys	Phe	Glu	Lys	Leu	Ala	Glu	Asp	Cys	Lys	Arg	
				20					25					30	
Ser	Met	Asp	Ile	Leu	Lys	Gln	Ala	Phe	Val	Arg	Gly	Leu	Pro	Thr	
				35					40					45	
Pro	Thr	Ala	Arg	Phe	Glu	Gln	Arg	Thr	Phe	Ser	Val	Ile	Lys	Ile	
				50					55					60	
Phe	Pro	Asp	Leu	Ser	Ser	Asn	Asp	Met	Leu	Leu	Phe	Ile	Val	Lys	
				65					70					75	
Gly	Ile	Asn	Leu	Pro	Thr	Pro	Pro	Gly	Leu	Ser	Pro	Gly	Asp	Leu	
				80					85					90	
Asp	Val	Phe	Val	Arg	Phe	Asp	Phe	Pro	Tyr	Pro	Asn	Val	Glu	Glu	
				95					100					105	
Ala	Gln	Lys	Asp	Lys	Thr	Ser	Val	Ile	Lys	Asn	Thr	Asp	Ser	Pro	
				110					115					120	
Glu	Phe	Lys	Glu	Gln	Phe	Lys	Leu	Cys	Ile	Asn	Arg	Ser	His	Arg	
				125					130					135	
Gly	Phe	Arg	Arg	Ala	Ile	Gln	Thr	Lys	Gly	Ile	Lys	Phe	Glu	Val	
				140					145					150	
Val	His	Lys	Gly	Gly	Leu	Phe	Lys	Thr	Asp	Arg	Val	Leu	Gly	Thr	
				155					160					165	
Ala	Gln	Leu	Lys	Leu	Asp	Ala	Leu	Glu	Ile	Ala	Cys	Glu	Val	Arg	
				170					175					180	
Glu	Ile	Leu	Glu	Val	Leu	Asp	Gly	Arg	Arg	Pro	Thr	Gly	Gly	Arg	
				185					190					195	
Leu	Glu	Val	Met	Val	Arg	Ile	Arg	Glu	Pro	Leu	Thr	Ala	Gln	Gln	
				200					205					210	
Leu	Glu	Thr	Thr	Thr	Glu	Arg	Trp	Leu	Val	Ile	Asp	Pro	Val	Pro	
				215					220					225	
Ala	Ala	Val	Pro	Thr	Gln	Val	Ala	Gly	Pro	Lys	Gly	Lys	Ala	Pro	
				230					235					240	
Pro	Val	Pro	Ala	Pro	Ala	Arg	Glu	Ser	Gly	Asn	Arg	Ser	Ala	Arg	
				245					250					255	

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Pro Leu His Ser Leu Ser Val Leu Ala Phe Asp Gln Glu Arg Leu
      260                      265                      270
Glu Arg Lys Ile Leu Ala Leu Arg Gln Ala Arg Arg Pro Val Pro
      275                      280                      285
Pro Glu Val Ala Gln Gln Tyr Gln Asp Ile Met Gln Arg Ser Gln
      290                      295                      300
Trp Gln Arg Ala Gln Leu Glu Gln Gly Gly Val Gly Ile Arg Arg
      305                      310                      315
Glu Tyr Ala Ala Gln Leu Glu Arg Gln Leu Gln Phe Tyr Thr Glu
      320                      325                      330
Ala Ala Arg Arg Leu Gly Asn Asp Gly Ser Arg Asp Ala Ala Lys
      335                      340                      345
Glu Ala Leu Tyr Arg Arg Asn Leu Val Glu Ser Glu Leu Gln Arg
      350                      355                      360
Leu Arg Arg

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&lt;210&gt; 6

&lt;211&gt; 484

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte Clone No: 2799056

&lt;400&gt; 6

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Met Ala Gly Pro Trp Thr Phe Thr Leu Leu Cys Gly Leu Leu Ala
  1          5          10          15
Ala Thr Leu Ile Gln Ala Thr Leu Ser Pro Thr Ala Val Leu Ile
      20          25          30
Leu Gly Pro Lys Val Ile Lys Glu Lys Leu Thr Gln Glu Leu Lys
      35          40          45
Asp His Asn Ala Thr Ser Ile Leu Gln Gln Leu Pro Leu Leu Ser
      50          55          60
Ala Met Arg Glu Lys Pro Ala Gly Gly Ile Pro Val Leu Gly Ser
      65          70          75
Leu Val Asn Thr Val Leu Lys His Ile Ile Trp Leu Lys Val Ile
      80          85          90
Thr Ala Asn Ile Leu Gln Leu Gln Val Lys Pro Ser Ala Asn Asp
      95          100         105
Gln Glu Leu Leu Val Lys Ile Pro Leu Asp Met Val Ala Gly Phe
     110         115         120
Asn Thr Pro Leu Val Lys Thr Ile Val Glu Phe His Met Thr Thr
     125         130         135
Glu Ala Gln Ala Thr Ile Arg Met Asp Thr Ser Ala Ser Gly Pro
     140         145         150
Thr Arg Leu Val Leu Ser Asp Cys Ala Thr Ser His Gly Ser Leu
     155         160         165
Arg Ile Gln Leu Leu His Lys Leu Ser Phe Leu Val Asn Ala Leu
     170         175         180
Ala Lys Gln Val Met Asn Leu Leu Val Pro Ser Leu Pro Asn Leu
     185         190         195
Val Lys Asn Gln Leu Cys Pro Val Ile Glu Ala Ser Phe Asn Gly
     200         205         210

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Met Tyr Ala Asp	Leu Leu Gln Leu Val	Lys Val Pro Ile Ser	Leu
215		220	225
Ser Ile Asp Arg	Leu Glu Phe Asp Leu	Leu Tyr Pro Ala Ile	Lys
230		235	240
Gly Asp Thr Ile	Gln Leu Tyr Leu Gly	Ala Lys Leu Leu Asp	Ser
245		250	255
Gln Gly Lys Val	Thr Lys Trp Phe Asn	Asn Ser Ala Ala Ser	Leu
260		265	270
Thr Met Pro Thr	Leu Asp Asn Ile Pro	Phe Ser Leu Ile Val	Ser
275		280	285
Gln Asp Val Val	Lys Ala Ala Val Ala	Ala Val Leu Ser Pro	Glu
290		295	300
Glu Phe Met Val	Leu Leu Asp Ser Val	Leu Pro Glu Ser Ala	His
305		310	315
Arg Leu Lys Ser	Ser Ile Gly Leu Ile	Asn Glu Lys Ala Ala	Asp
320		325	330
Lys Leu Gly Ser	Thr Gln Ile Val Lys	Ile Leu Thr Gln Asp	Thr
335		340	345
Pro Glu Phe Phe	Ile Asp Gln Gly His	Ala Lys Val Ala Gln	Leu
350		355	360
Ile Val Leu Glu	Val Phe Pro Ser Ser	Glu Ala Leu Arg Pro	Leu
365		370	375
Phe Thr Leu Gly	Ile Glu Ala Ser Ser	Glu Ala Gln Phe Tyr	Thr
380		385	390
Lys Gly Asp Gln	Leu Ile Leu Asn Leu	Asn Asn Ile Ser Ser	Asp
395		400	405
Arg Ile Gln Leu	Met Asn Ser Gly Ile	Gly Trp Phe Gln Pro	Asp
410		415	420
Val Leu Lys Asn	Ile Ile Thr Glu Ile	Ile His Ser Ile Leu	Leu
425		430	435
Pro Asn Gln Asn	Gly Lys Leu Arg Ser	Gly Val Pro Val Ser	Leu
440		445	450
Val Lys Ala Leu	Gly Phe Glu Ala Ala	Glu Ser Ser Leu Thr	Lys
455		460	465
Asp Ala Leu Val	Leu Thr Pro Ala Ser	Leu Trp Lys Pro Ser	Ser
470		475	480
Pro Val Ser Gln			

&lt;210&gt; 7

&lt;211&gt; 1638

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte Clone No: 238506

&lt;400&gt; 7

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&lt;210&gt; 8

&lt;211&gt; 1015

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte Clone No: 414692

&lt;400&gt; 8

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cccggtaccc tcgctcctcg atcgaggacg acttcaacta tggcagcagc gtggcctccg 240
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&lt;210&gt; 9

&lt;211&gt; 1481

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens



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PCT/US99/15121

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte Clone No: 998868

&lt;400&gt; 9

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&lt;220&gt;

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&lt;223&gt; Incyte Clone No: 1296451

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WO 00/01821

PCT/US99/15121

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&lt;211&gt; 1658

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

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&lt;223&gt; Incyte Clone No: 1739035

&lt;400&gt; 11

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&lt;210&gt; 12

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&lt;223&gt; Incyte Clone No: 2799056

WO 00/01821

PCT/US99/15121

&lt;400&gt; 12

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